

## CHAPTER 1 GENERAL

---

**1-1. Scope.** This manual is a general guide for the design of interior electrical power, lighting, and auxiliary systems. Criteria contained herein should achieve economical, durable, efficient, and dependable systems to support Army and Air Force installations. The provisions of AFM 88-15 which differ from the criteria contained herein will take precedence at Air Force installations. Where special conditions and problems are not specifically covered in this manual, acceptable industry standards will be followed. Modernization of electrical systems within existing facilities solely for the purpose of meeting criteria in this manual is not required. The criteria contained herein are not intended to be retroactively mandatory.

**1-2. Standards and codes.** Applicable industry organization and technical society standards and codes will apply to equipment, materials, and con-

struction covered by this manual. However, the minimum requirements of NFPA No. 70, National Electrical Code (NEC), and ANSI C2, National Electrical Safety Code (NESC), must be met. Applicable standards and other documents, both Government and non-Government, are referenced in the text and listed in appendix A.

**1-3. Symbols.** Symbols for plan and detail drawings will conform to the requirements of ANSI Y32.9. Symbols for one-line, three-line, riser, schematic, and wiring diagrams will conform to the requirements of ANSI Y32.2.

**1-4. Detailed criteria.** Detailed interior electrical system design criteria for confinement facilities are included in appendix B; for Army medical facilities, in TM 5-838-2; and for Air Force medical facilities, in AFM 88-50.